FOR QUALITY & EXCELLENCE IN HIGHER EDUCATION
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BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

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JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15/ Date: 04-03-2015

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*:Improvements to roads and Construction of drains at Kempegowda Layout (next to RR school) inWard No.10, of Vidyaranyapure Sub-Division}

Ref.: Letter No. Testing/BUB/2014-15, dated 27-02-2015

Sample supplied to lab by:, : Sri.Aswathnarayana Anjanappa, Contractor, Bangalore.

Report required for: Assistant Executive Engineer,
Vidyaranyapure Sub-Division.
BBMP, Bangalore.

AE-10

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	**100.00**	100
45.00	**97.30**	95-100
26.50	**---**	-
22.40	**74.50**	60-80
11.20	**45.30**	40-60
4.75	**36.40**	25-40
2.36	**22.10**	15-30
0.600	**18.50**	8-22
0.075	**3.50**	0-8

*As Furnished by Client

The Results relate only to the items tested

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JNANA BHARATHI
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BUB/CTE/2014-15/

Date: 30-03-2015

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: Testing of Bitumen Premix Sample (Semi Dense Bituminous Concrete-SDBC).
{Project*:Improvements to roads and Construction of drains at Kempegowda Layout (next to RR school) inWard No.10, of Vidyaranyapure Sub-Division}

Ref.: Letter No. Testing/BUB/2014-15, dated 27-03-2015

Sample supplied to lab by:, : Sri.Aswathnarayana Anjanappa, Contractor, Bangalore.

Report required for: Assistant Executive Engineer,
Vidyaranyapure Sub-Division.
BBMP, Bangalore.

TEST RESULTS:

11. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.07 %**
12. **Gradation Test** :

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-15 of MORTH Specifications-2001 (Grading – 2)
13.2	**100**	100
9.5	**98.50**	90—100
4.75	**44.50**	35—51
2.36	**35.20**	24—39
1.18	**21.30**	15—30
0.3	**15.50**	09—19
0.075	**4.50**	03—08

* As furnished by Client.
The Results relate only to the items tested.

AE-10

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AE-10

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬ. ಬೆ. ಮ ಪಾ . ಬೆಂಗಳೂರು-೯೧

30/3/15

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JNANA BHARATHI
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BUB/CTE/2014-15 **Date: 04-03-2015**

1. TEST REPORT ON REINFORCEMENT STEEL :

Sub: Testing of Reinforcement Steel of diameter 10mm.
{Project*:Improvements to roads and Construction of drains at Kempegowda Layout (next to RR school) inWard No.10, of Vidyaranyapure Sub-Division}

Ref.: Letter No. Testing/BUB/2014-15, dated 27-02-2015

Sample supplied to lab by:, : Sri.Aswathnarayana Anjanappa, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, Vidyaranyapure Sub-Division. BBMP, Bangalore.

TABLE – 1

SL No	Details	For 10mm	
		Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**10.0mm**	10.0mm
02	Observed Wt/m Length **Kg/m**	**0.620**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**562.0**	500.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**19.50**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**620.0**	545.0

*As furnished by Client.
The Results relate only to the items tested.

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JNANA BHARATHI
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BUB/CTE/2014-15

DATE: 04-04-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28 days Compressive Strength)
{Project*:Improvements to roads and Construction of drains at Kempegowda Layout (next to RR school) inWard No.10, of Vidyaranyapure Sub-Division}

Ref.: Letter No. Testing/BUB/2014-15, dated 01-04-2015

Sample supplied to lab by:, : Sri.Aswathnarayana Anjanappa, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, Vidyaranyapure Sub-Division. BBMP, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-03-15	01-04-15	28	22500	520	22.88	**23.03**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	520	22.88	

*As furnished by Client.
The Results relate only to the items tested.

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